

Input/Output
<Output>

Blinking LED

PB.5 → Arduino Uno pin 13

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```
DDRB=0b00100000;
```

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DDRB=0b00100000;
```

```
PORTB=0b00100000;
```

Blinking LED

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```
DDRB=0b00100000;
```

```
PORTB=0b00100000;
```

```
PORTB=0b00000000;
```

Blinking LED

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```
#include <avr/io.h>
#include <util/delay.h>

int main () {

    DDRB=0b00100000;

    while (1) {
        PORTB=0b00100000;
        _delay_ms(1000);
        PORTB=0b00000000;
        _delay_ms(1000);
    }
}
```

Blinking LED

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```
#include <avr/io.h>
#include <util/delay.h>

int main () {

    DDRB=0b00100000;

    while (1) {

        PORTB=0b00100000;
        _delay_ms(1000);
        PORTB=0b00000000;
        _delay_ms(1000);

    }

}
```

I/O Registers names stored here

`_delay_ms()` is here

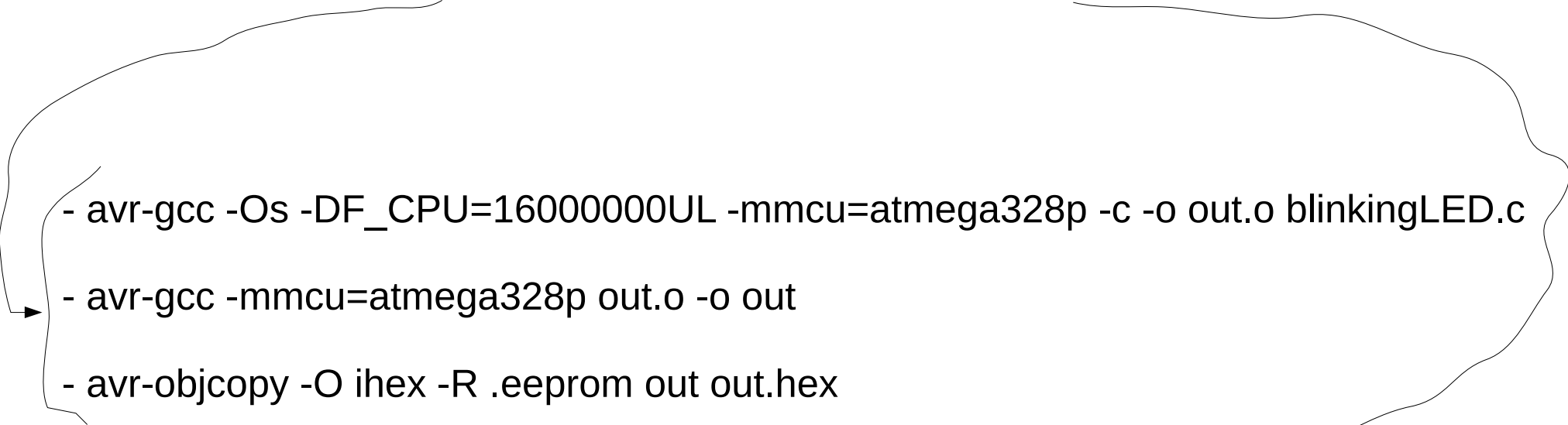
The Main Function
“C Compiler searches for it to start the program”

Infinite Loop

Build (Compile) and Burn

- `avr-gcc -Os -DF_CPU=16000000UL -mmcu=atmega328p -c -o out.o blinkingLED.c`
- `avr-gcc -mmcu=atmega328p out.o -o out`
- `avr-objcopy -O ihex -R .eeprom out out.hex`
- `avrdude -F -V -c arduino -p ATMEGA328P -P COM* -b 115200 -U flash:w:out.hex`

Build (Compile) and Burn

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- `avr-gcc -Os -DF_CPU=16000000UL -mmcu=atmega328p -c -o out.o blinkingLED.c`
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Thanks